

IN THE SPECIFICATION:

The paragraph beginning at page 1, line 29 and ending at page 2, line 9 has been amended as follows:

--According to first and second aspects of the present invention, method and apparatus are provided for displaying graphical information on a display of an electronic device sized for hand-held use, ~~the~~. The display providing provides an image in a window having an extent limited by the size of the electronic device, ~~wherein a~~. A user-actuated input windowing signal is input by a user of the electronic device to a user input device within the electronic device, the windowing signal having a magnitude indicative of a selected whole or portion of an extent of the graphical information greater than displayable at once as said image over the limited extent of the window, and, in, In response to the user actuated input windowing signal, ~~providing a display signal~~ is provided to the display of the electronic device for displaying the selected whole or portion of the extent of the graphical information on the limited extent window of the display.--

The paragraph beginning at page 5, line 4 has been amended as follows:

--Fig. 15 shows an application of the invention wherein ~~menus are a~~ directory structure is viewed.--

The paragraph beginning at page 5, line 14 has been amended as follows:

--The following description of a method for displaying graphical information on a display of an electronic device sized for hand-held use is shown in the context of a user interface of a web browser for use with a low-resolution color display. The example shown in the following description are focused on use with such a color display with a resolution of for instance 176 by 208 pixels. However, it will be understood that the present invention is

not restricted to a web browser or to a color display of the type described. The user interface of a the present invention can be used for all kinds of low-resolution displays and in different contexts.--

The paragraph beginning at page 10, line 25 and ending at page 11, line 10 has been amended as follows:

--It should be realized that there are other methods for allowing the user to provide an input other than the buttons shown in Fig. 2 or the joystick or rollers suggested above. Another approach would be to equip the hand-held electronic device with a sensor or sensors to sense the viewer input in the form of moving the hand-held electronic device itself in a direction indicative of a desired view window, magnification or both. There ~~is~~ are various types of sensors that could be used:

- 1) Sensors that detect movement; magnetic sensor, accelerometer (see e.g., U.S. 5,615,132), gyroscope (mechanical or optical), radio (see e.g., U.S. 6,204,813 or U.S. 6,054,951);
- 2) Sensors that detect objects around and then calculates the actual movement: Proximity (sound, light), camera with image recognition (see e.g., U.S. 6,195,455 or 5,729,475);
- 3) Tag based systems, where sensors detect fixed tags on enviroment and calculate the actual movement, by the location of tags. (e.g. BLUETOOTH (BT) type of devices where there can be many BT devices in a room and most of them are fixed, like printers or projectors);
- 4) Control could be also by user voice commands.--

The paragraph beginning at page 13, line 13 and ending at page 14, line 13 has been amended as follows:

--Fig. 16 shows a hand-held electronic device 10, according to the present invention, having a low-resolution display for displaying graphical information. The display has a window for providing an image having an extent limited by the size of the electronic device. According to the

invention, the device 10 includes one or more user input devices 14 such as the control buttons of Fig. 2, keys, rollers, joysticks, the n-axis accelerometers described in connection with Figs. 13-15, or like position/movement detection systems including various combinations thereof. A user input is signified by a user input line 16 actuating the user input device 14. In response to the user input on the line 16, the user input device 14 provides a windowing signal on a line 18 having a magnitude indicative of a selected whole or portion of the full extent of the graphical information to be displayed on the imaging window of the low-resolution display. Or, it could be indicative of a level of detail desired by the user. Or, it could be both or a combination of both. A signal processor 20 is responsive to the windowing signal on the line 18 for processing that signal and providing an output display signal on a line 22 to the display 12. The signal processor 20 may be a conventional signal processor including an input/output (I/O) device, a random access memory (RAM) 26, a read only memory (ROM) 28, a central processing unit (CPU) 30 and other (not shown) devices such as a small hard drive all interconnected by data, address and control (D, A, C) busses 32. Such a signal processor is well known in the art and will be capable of providing a graphics adapter function for carrying out the various functionalities described herein. Essentially, it will determine what portion or level of detail (or both) is indicated by the user input signal and cause that portion to be retrieved for display. Of course, the hand-held device 10 will include other devices associated with its basic functionalities. For instance, if the hand-held electronic device constitutes a mobile telephone, it will include the necessary constituent elements to provide such functionality such as an antenna with a duplexer, coders/decoders and other devices known in the art of mobile telecommunications. If the device, on the other hand, is a personal digital assistant, it may include sophisticated personal digital ~~assistance~~ assistant software which is unrelated to the present invention and which need not be shown here. Or such could be combined.--